



City Hall MEP Replacement
(Mechanical, Electrical & Plumbing)

IFB # 35-12-13

Presented by:

S&D Engineering & Construction, Inc

Kamal Halabi, P.E.

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

General Work Description :

City Hall – MEP Replacement consists of three sections:

- *Electrical section*
 - *Electrical Scope of Work*
 - *Existing Electrical Service description*
 - *Proposed Electrical Service*
- *Mechanical section*
 - *Mechanical Scope of Work*
 - *Basement & OFFICE HVAC System*
- *Plumbing section*

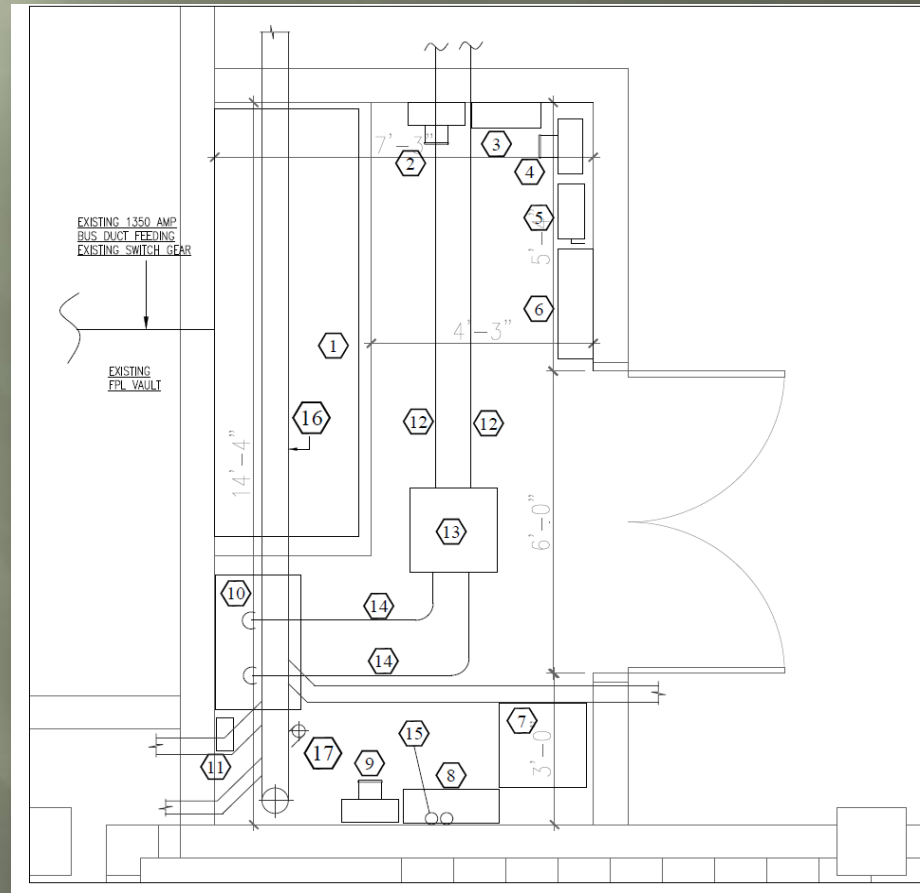
CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : Electrical Scope of Work

- 1) REPLACE THE EXISTING ELECTRICAL SWITCH GEAR AND EXISTING AUTOMATIC TRANSFER SWITCH WITH NEW EQUIPMENT. CONNECT EXISTING FEEDERS THAT ARE CURRENTLY FED FROM EXISTING ELECTRICAL SWITCH GEAR TO NEW MDP.
- 2) INSTALL NEW MAIN BREAKER FOR THE ELECTRIC SERVICE
- 3) REMOVE EXISTING ELECTRICAL EQUIPMENT IN THE ELECTRICAL ROOM THAT ARE ABANDONED OR NOT IN USED
- 4) REFEED EXISTING 400 AMP PANEL IN THE ELECTRICAL ROOM FROM NEW MAIN DISTRIBUTION PANEL
- 5) PROVIDE LABELING FOR ALL EXISTING PANELS IN THE CITY HALL BUILDING. THE LABELING INCLUDES PROVIDING BRANCH CIRCUIT IDENTIFICATIONS AND PROVIDING A STICKER LABEL AT THE EXISTING OUTLETS AND DISCONNECTS WITH CIRCUIT NUMBER AND PANEL THAT IS FED FROM.
- 6) PROVIDE POWER FOR NEW AND/OR REPLACED HVAC EQUIPMENT IN BASEMENT AND FIRST FLOOR OFFICE.

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

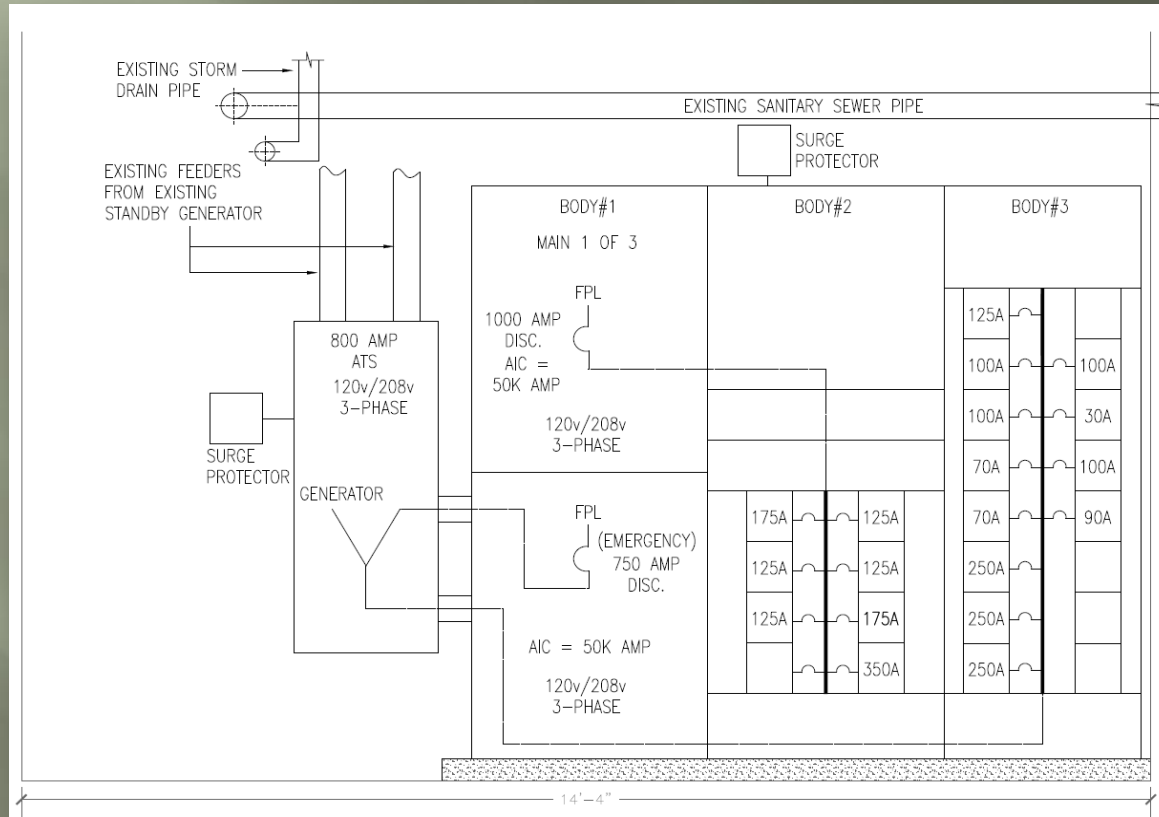
Section-1 : Existing Electrical Service Description



EXISTING ELECTRICAL ROOM

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : Existing Electrical Service Description



EXISTING ELECTRICAL SWITCH GEAR

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : Existing Electrical Service Description



EXISTING ELECTRICAL SWITCH GEAR



EXISTING
ELECTRICAL METER



EXISTING AUTOMATIC
TRANSFER SWITCH

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : Existing Electrical Service Description



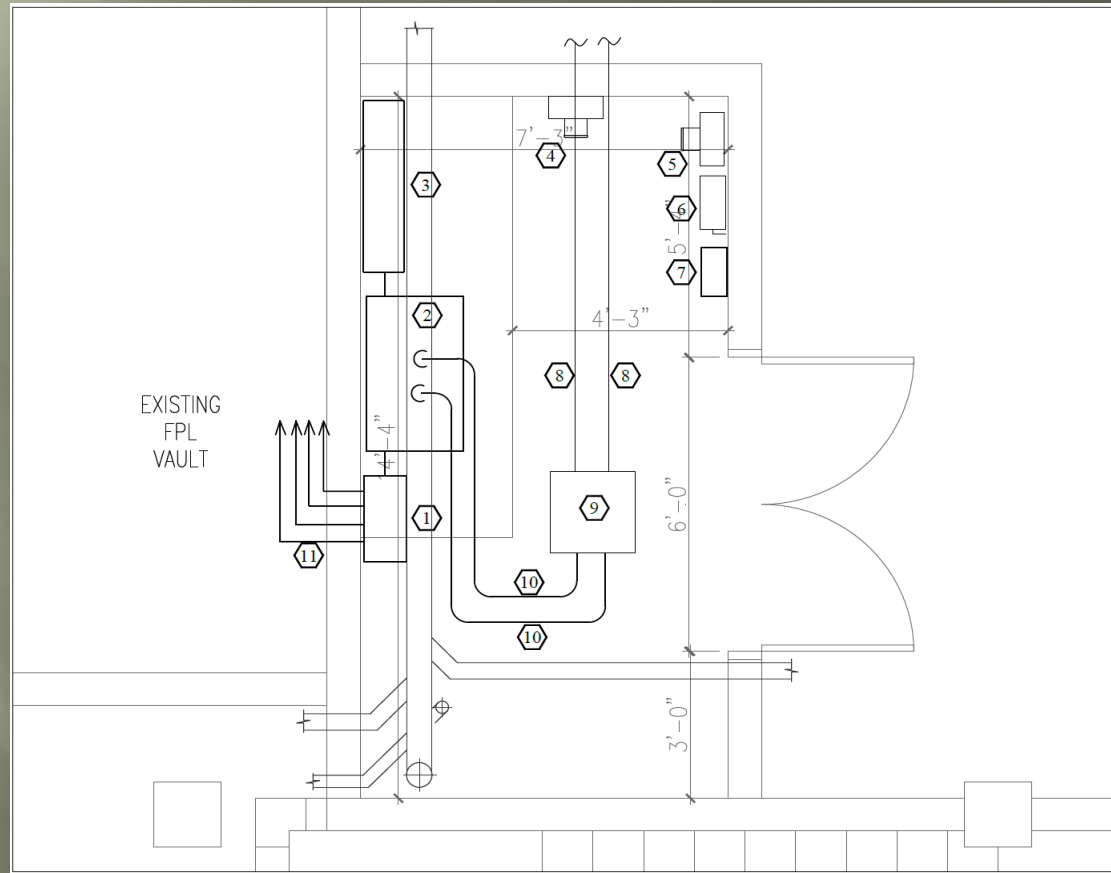
EXISTING EQUIPMENT TO BE REMOVED



EXISTING BRANCH FEEDERS

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

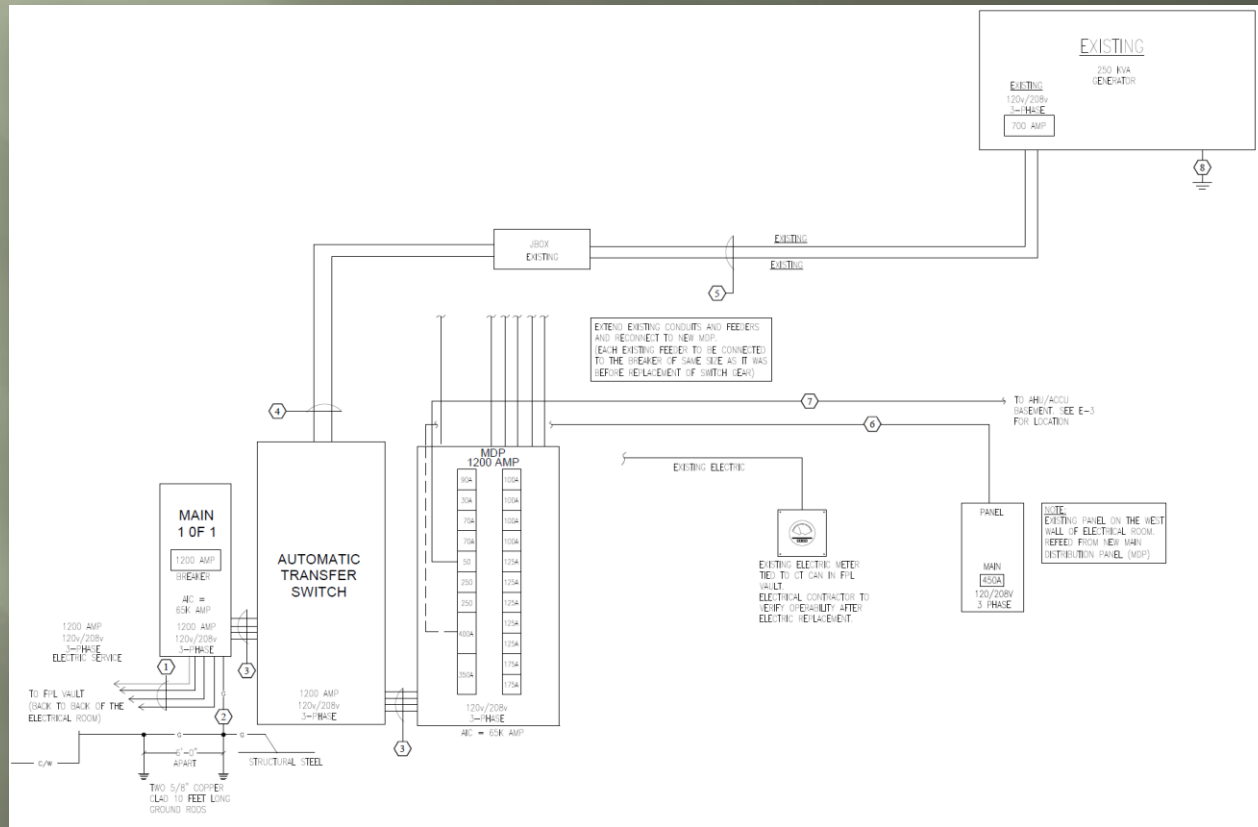
Section-1 : Proposed Electrical Service



PROPOSED ELECTRICAL ROOM LAYOUT

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : Proposed Electrical Service



PROPOSED RISER DIAGRAM

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-1 : QUESTIONS

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-2 : Mechanical Scope of Work

- 1) REPLACE EXISTING 7-1/2 TON SPLIT A/C UNIT FOR BASEMENT WITH NEW 10-TON SPLIT SYSTEM. AHU IS LOCATED IN BASEMENT & ACCU IS LOCATED ON EXISTING STAND - 2ND FLOOR . EXISTING REFRIGERANT LINES TO BE REPLACED WITH NEW.
- 2) REMOVE EXISTING DUCTWORK THAT FEEDS FIRST FLOOR FROM BASEMENT A/C UNIT. PATCH/REPAIR MAIN SUPPLY DUCT IN THE BASEMENT.
- 3) EXTEND EXISTING FRESH AIR DUCT TO AHU LOCATION
- 4) PROVIDE NEW O/A OPENING AND GOOSENECK FOR BASEMENT O/A INTAKE
- 5) REPLACE EXISTING WALL MOUNTED BASMENT EXHAUST FAN WITH NEW
- 6) PROVIDE MANUAL DAMPERS ON EXISTING EXHAUST DUCT IN BASEMENT AND BALANCE PER CFM SHOWN ON PLAN
- 7) PROVIDE AND INSTALL NEW 5-TON SPLIT SYSTEM FOR OFFICE AREA ON FIRST FLOOR. ACCU WILL BE LOCATED ON A NEW MIAMI-DADE APPROVED STAND ON SECOND FLOOR

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-2 : HVAC EQUIPMENT - BASEMENT



EXISTING AHU- BASEMENT



EXISTING ACCU (BASEMENT) – 2ND FLOOR

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-2 : HVAC EQUIPMENT - BASEMENT



EXISTING O/A INTAKE - BASEMENT



EXISTING A/C DUCT FEEDING FIRST FLOOR

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-2 : HVAC EQUIPMENT - BASEMENT



EXISTING O/A INTAKE- BASEMENT



EXISTING EXHAUST FAN - BASEMENT

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-2 : QUESTIONS

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-3 : Plumbing Scope of Work

EXISTING BUILDING SANITARY SEWER PIPE THAT PASSES ABOVE ELECTRICAL EQUIPMENT/SERVICE HAS TO BE ENCASED WITH 2" THICK CONCRETE. USE 3/8" DIAMETER U-HANGERS, DOWEL MINIMUM 4" INTO THE EXISTING SLABS (ON BOTH SIDES OF THE HANGER). SET IN CONCRETE EPOXY 12" FROM WALL AND MAXIMUM 4 FEET OFF CENTER.

CONTRACTOR TO RELOCATE ANY ELECTRICAL BRANCH CIRCUIT CONDUIT OR JUNCTION BOX THAT RUNS OR LOCATED IN THE ENCASEMENT SPACE

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-3 : PLUMBING SCOPE OF WORK



EXISTING SANITARY PIPE ABOVE ELECTRICAL SERVICE

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

Section-3 : QUESTIONS

CITY HALL MEP REPLACEMENT (MECHANICAL, ELECTRICAL & PLUMBING)

THANK YOU